FIG. 1

```
gaattccgtc atggcgtcgc atggcgtcgc atggcgtcgc vagccaaatt cgtctgcgaa
gaagaaagag gagaaggga agaacatcca ggtggtggtg agatgcagac catttaattt
ggcagagcgg aaagctagcg cccattcaat agtagaatgt gatcctgtac gaaaagaagt
tagtgtacga actggaggat tggctgacaa gagctcaagg aaaacataca cttttgatat
ggtgtttgga gcatctacta aacagattga tgtttaccga agtgttgttt gtccaattct
ggatgaagtt attatgggct ataattgcac tatctttgcg tatggccaaa ctggcactgg
aaaaactttt acaatggaag gtgaaaggtc acctaatgaa gagtatacct gggaagagga
tcccttggct ggtataattc cacgtaccct tcatcaaatt tttgagaaac ttactgataa
tggtactgaa ttttcagtca aagtgtctct gttggagatc tataatgaag agcttttga
tcttcttaat ccatcatctg atgtttctga gagactacag atgtttgatg atccccgtaa
caagagagga gtgataatta aaggtttaga agaaattaca gtacaagaac aggatgaagt
ctatcaaatt ttagaaaagg gggcagcaaa aaggacaact gcagctactc tgatgaatgc
atactctagt cgttcccact cagttttctc tgttacaata catatgaaag aaactacgat
tgatggagaa gagcttgtta aaatcggaaa gttgaacttg gttgatcttg caggaagtga
aaacattggc cgttctggag ctgttgataa gagagctcgg gaagctggaa atataaatca
atccctgttg actttgggaa gggtcattac tgcccttgta gaaagaacac ctcatgttcc
ttatcgagaa tctaaactaa ctagaatcct ccaggattct cttggagggc gtacaagaac
atctataatt gcaacaattc ctcctgcatc tctcaatctt gaggaaactc tgagtacatt
ggaatatgct catagagcaa agaacatatt gaataagcct gaagtgaatc agaaactcac
caaaaaagct cttattaagg agtatacgga ggagatagaa cgtttaaaac gagatcttgc
tgcagcccgt gagaaaaatg gagtgtatat ttctgaagaa aatttagag tcatgagtgg
aaaattaact gttcaagaag agcagattgt agaattgatt gaaaaaattg gtgctgttga
ggaggagctg aatagggtta cagagttgtt tatggataat aaaaatgaac ttgaccagtg
taaatctgac ctgcaaaata aaacacaaga acttgaaacc actcaaaaac atttgcaaga
aactaaatta caacttgtta aagaagaata tatcacatca gctttggaaa gtactgagga
gaaacttcat gatgctgcca gcaagatgat taacacagtt gaagaaacta caaaagatgt
atctggtctc cattccaaac tggatcgtaa gaaggcagtt gaccaacaca atgcagaagc
tcaggatatt tttggcaaaa acctgaatag tctgtttaat aatatggaag aattaattaa
ggatggcagc tcaaagcaaa aggccatgct agaagtacat aagaccttat ttggtaatgt
gctgtcttcc agtgtctctg cattagatac cattactaca gtagcacttg gatctctcac
atctattcca gaaaatgtgt ctactcatgt ttctcagatt tttaatatga tactaaaaga
acaatcatta gcagcagaaa gtaaaactgt actacaggaa ttgattaatg tactcaagac
tgatcttcta agttcactgg aaatgatttt atccccaact gtggtgtcta tactgaaaat
caatagtcaa ctaaagcata ttttcaagac ttcattgaca gtggccgata agatagaaga
tcaaaaaaaa aggaactcag atggctttct cagtatactg tgtaacaatc tacatgaact
acaagaaaat accattgtt ccttggttga gtcacaaaag caatgtggaa acctaactga
agacctgaag acaataaagc agacccattc ccaggaactt tgcaagttaa tgaatctttg
gacagagaga ttctgtgctt tggaggaaaa gtgtgaaaat atacagaaac cacttagtag
tgtccaggaa aatatacagc agaaatctaa ggatatagtc aacaaaatga cttttcacag
tcaaaaattt tgtgctgatt ctgatggctt ctcacaggaa ctcagaaatt ttaaccaaga
aggtacaaaa ttggttgaag aatctgtgaa acactctgat aaactcaatg gcaacctgga
aaaatatct caagagactg aacagagatg tgaatctctg aacacaagaa cagtttattt
ttctgaacag tgggtatctt ccttaaatga aagggaacag gaacttcaca acttattgga
ggttgtaagc caatgttgtg aggcttcaag ttcagacatc actgagaaat gagatggacg
taaggcagct catgagaaac agcataacat ttttcttgat cagatgacta ttgatgaaga
taaattgata gcacaaaatc tagaacttaa tgaaaccata aaaattggtt tgactaagct
taattgcttt ctggaacagg atctgaaact ggatatccca acaggtacga caccacagag
gaaaagttat ttatacccat caacactggt aagaactgaa ccacgtgaac atctccttga
tcagctgaaa aggaaacagc ctgagctgtt aatgatgcta aactgttcag aaaacaacaa
agaagagaca attccggatg tggatgtaga agaggcagtt ctggggcagt atactgaaga
acctctaagt caagagccat ctgtagatgc tggtgtggat tgttcatcaa ttggcggggt
tccatttttc cagcataaaa aatcacatgg aaaagacaaa gaaacagag gcattaacac
actggagagg tctaaagtgg actaaagtgg agcacttg gttacaaaga gcagattacc
tctgcgagcc cagatcaacc tttaattcac ttgggggttg gcaatttat ttttaaagaa
aaacttaaaa ataaaacctg aaaccccaga acttgagcct tgtgtataga ttttaaaaga
atatatatat cagccgggcg cgtggctcta gctgtaatcc cagctaactt tggaggctga
ggcggtgga ttgcttgagc ccaggagttt gagaccagcc tggccaacgt gcgctaaaac
cttcgtctct gttaaaaatt agccgggcgt ggtgggcaca ctcctgtaat cccagctact
ggggaggctg aggcacgaga atcacttgaa cccagaagcg gggttgcagt gagccaaagg
tacaccacta cactccagcc tgggcaacag agcaagactc ggtctcaaaa ataaaatta
aaaagatat aaggcagtac tgtaaattca gttgaatttt gatatctacc cattttctg
tcatccctat agttcacttt gtattaaatt gggttcattt tgggatttgc aatgtaaata
          cgtattttcta gttttcatat aaagtagttc ttttaggaat tc
```

FIG. 2

```
                    MASQPNSSAKKKEEKGKNIQVVVRCRPFNLAERKASAHSIVECD
PVRKEVSVRTGGLADKSSRKTYTFDMVFGASTKQIDVYRSVVCPILDEVIMGYNCTIF
AYGQTGTGKTFTMEGERSPNEEYTWEEDPLAGIIPRTLHQIFEKLTDNGTEFSVKVSL
LEIYNEELFDLLNPSSDVSERLQMFDDPRNKRGVIIKGLEEITVHNKDEVYQILEKGA
AKRTTAATLMNAYSSRSHSVFSVTIHMKETTIDGEELVKIGKLNLVDLAGSENIGRSG
AVDKRAREAGNINQSLLTLGRVITALVERTPHVPYRESKLTRILQDSLGGRTRTSIIA
TISPASLNLEETLSTLEYAHRAKNILNKPEVNQKLTKKALIKEYTEEIERLKRDLAAA
REKNGVYISEENFRVMSGKLTVQEEQIVELIEKIGAVEEELNRVTALFMDNKNELDQC
KSDLQNKTQELETTQKHLQETKLQLVKEEYITSALESTEEKLHDAASKLLNTVEETTK
DVSGLHSKLDRAKKAVDQHNAEAQDDIFGKNLSLFNNMEELIKDGSKQKAMLEVHKTL
FGNLLSSSVSALDTITTVALGSLTSIPENVSTHVSQIFNMILKEQSLAAESKTVLQEL
INVLKTDLLSSLEMILSPTVVSILKINSQLKHIFKTSLTVADKIEDQKKRNSDGFLSI
LCNNLEHELQENTICSLVESQKQCGNLTEDLKTIKQTHSQELCKLMNWTERFCALEEK
CENIQKPLSSVQENIQQKSKDIVNKMTFHSQKFCADSDGFSQELRNFNQEGTKLVEES
VKHSDKLNGNLEKISQITEQRCESLNTRTVYFSEQWVSSLNEREQELHNLLEVVSQCC
EASSSDITEKSDGRKAAHEKQHNIFLDQMTIDEDKLIAQNLELNETIKIGLTKLNCFL
EQDLKLDIPTGTTPQRKSYLYPSTLVRTEPREHLLDQLKRKQPELLMMLNCSENNKEE
TIPDVDVEEAVLGQYTEEPLSQEPSVDAGVDCSSIGGVPFFQHKKSHGKDKENRGINT
LERSKVEETTEHLVTKSRLPLRAQINL
```

FIG. 3

atggcg<u>tgc</u>cagccaaattcgtctgcgaagaagaaagaggagaaggggaagaacatccaggtggtggtgaga
tgcagaccatttaatttggcagagcggaaagctagcgcccattcaatagtagaatgtgatcctgtacgaaaa
gaagttagtgtacgaactggaggattggctgacaagagctcaaggaaaacatacactttgatatggtgttt
ggagcatctactaaacagattgatgtttaccgaggtgttgtttgtccaattctggatgaagttattatgggc
tataattgcactatctttgcgtatggccaaactggcactggaaaaaactttttacaatggaaggtgaaaggtca
cctaatgaagagtatacctgggaagaggatcccttggctggtataattccacgtacccttcatcaaattttt
gagaaacttactgataatggtactgaattttcagtcaaagtgtctctgttggagatctataatgaagagctt
tttgatcttcttaatccatcatctgatgtttctgagagactacagatgtttgatgatccccgtaacaagaga
ggagtgataattaaaggtttagaagaaattacagtacacaacaaggatgaagtgtatcaaattttagaaaag
ggggcagcaaaaaggacaactgcagctactctgatgaatgcatactctagtcgttcccactcagttttctct
gttacaatacatatgaaagaaactacgattgatggagaagagcttgttaaaatcggaaagttgaacttggtt
gatcttgcaggaagtgaaaacattggccgttctggagctgttgataagagagctcgggaagctggaaatata
aatcaatccctgttgactttgggaagggtcattactgcccttgtagaaagaacacctcatgttccttatcga
gaatctaaactaactagaatcctccaggattctcttggagggcgtacaagaacatctataattgcaacaatt
<u>tctcctgcatctctcaatcttgaggaaactctgagtacattggaatatgctcatagagcaaagaacatattg</u>
<u>ctcgagggtaccgagcagaagctgatcagcgaggaggacctgatcgagcaccaccaccaccaccactga</u>

FIG. 4

MACQPNSSAKKKEEKGKNIQVVVRCRPFNLAERKASAHSIVECDPVRKEVSVRTGGLADKSSRKTYTFDMVF
GASTKQIDVYRSVVCPILDEVIMGYNCTIFAYGQTGTGKTFTMEGERSPNEEYTWEEDPLAGIIPRTLHQIF
EKLTDNGTEFSVKVSLLEIYNEELFDLLNPSSDVSERLQMFDDPRNKRGVIIKGLEEITVHNKDEVYGILEK
GAAKRTTAATLMNAYSSRSHSVFSVTIHMKETTIDGEELVKIGKLNLVDLAGSENIGRSGAVDKRAREAGNI
NQSLLTLGRVITALVERTPHVPYRESKLTRILQDSLGGRTRTSIIATISPASLNLEETLSTLEYAHRAKNIL
<u>LEQTEGKLISEEDLIEHHHHHH</u>

FIG. 5

atggcgtgccagccaaattcgtctgcgaagaagaaagaggagaaggggaagaacatccaggtggtggtgaga
tgcagaccatttaatttggcagagcggaaagctagcgcccattcaatagtagaatgtgatcctgtacgaaaa
Gaagttagtgtacgaactggaggattggctgacaagagctcaaggaaaacatacactttttgatatggtgttt
Ggagcatctactaaacagattgatgtttaccgaggtgttgtttgtccaattctggatgaagttattatgggc
Tataattgcactatctttgcgtatggccaaactggcactggaaaaacttttacaatggaaggtgaaaggtca
Cctaatgaagagtatacctgggaagaggatcccttggctggtataattccacgtacccttcatcaaattttt
Gagaaacttactgataatggtactgaattttcagtcaaagtgtctctgttggagatctataatgaagagctt
Tttgatcttcttaatccatcatctgatgtttctgagagactacagatgtttgatgatccccgtaacaagaga
Ggagtgataattaaaggtttagaagaaattacagtacacaacaaggatgaagtgtatcaaattttagaaaag
Ggggcagcaaaaaggacaactgcagctactctgatgaatgcatactctagtcgttcccactcagttttctct
Gttacaatacatgaaagaaactacgattgatggagaagagcttgttaaaatcggaaagttgaacttggtt
Gatcttgcaggaagtgaaaacattggccgttctggagctgttgataagagagctcgggaagctggaaatata
aatcaatccctgttgactttgggaagggtcattactgcccttgtagaaagaacacctcatgttccttatcga
gaatctaaactaactagaatcctccaggattctcttggagggcgtacaagaacatctataattgcaacaatt
tctcctgcatctctcaatcttgaggaaactctgagtacattggaatatgctcatagagcaaagaacatattg
aataagcctgaagtgaatcagaaactcaccaaaaaagctcttattaaggagtatacggaggagatagaacgt
ttaaaacgagatcttgctgcagcccgtgagaaaatggagtgtatatttctgaagaaaattttagagtcatg
agtggaaaattaactgttcaagaagagcagattgtagaattgattgaaaaaattggtgctgttgaggaggag
ctgaatagggttacagagttgttttatggataataaaaatgaacttgaccagtgtaaatctgacctgcaaaat
aaaacacaagaacttgaaaccactcaaaaacatttgcaagaaactaaattacaacttgttaaagaagaatat
atcacatcagctttggaaagtactgaggagaaactcgagggtaccgagcagaagctgatcagcgaggaggac
ctgatcgagcaccaccaccaccaccactga

FIG. 6

MACQPNSSAKKKEEKGKNIQVVVRCRPFNLAERKASAHSIVECDPVRKEVSVRTGGLADKSSRKTYTFDMVF
GASTKQIDVYRSVVCPILDEVIMGYNCTIFAYGQTGTGKTFTMEGERSPNEEYTWEEDPLAGIIPRTLHQIF
EKLTDNGTEFSVKVSLLEIYNEELFDLLNPSSDVSERLQMFDDPRNKRGVIIKGLEEITVHNKDEVYGILEK
GAAKRTTAATLMNAYSSRSHSVFSVTIHMKETTIDGEELVKIGKLNLVDLAGSENIGRSGAVDKRAREAGNI
NQSLLTLGRVITALVERTPHVPYRESKLTRILQDSLGGRTRTSIIATISPASLNLEETLSTLEYAHRAKNIL
NKPEVNQKLTKKALIKEYTEEIERLKRDLAAAREKNGVYISEENFRVMSGKLTVQEEQIVELIEKIGAVEEE
LNRVTELFMDNKNELDQCKSDLQNKTQELETTQKHLGETKLGLVKEEYITSALESTEEK<u>LEQTEGKLISEED</u>
<u>LIEHHHHHH</u>

FIG. 7

atggcgtgccagccaaattcgtctgcgaagaagaaagaggagaaggggaagaacatccaggtggtggtgaga
tgcagaccatttaatttggcagagcggaaagctagcgcccattcaatagtagaatgtgatcctgtacgaaaa
gaagttagtgtacgaactggaggattggctgacaagagctcaaggaaaacatacacttttgatatggtgttt
ggagcatctactaaacagattgatgtttaccgaggtgttgtttgtccaattctggatgaagttattatgggc
tataattgcactatctttgcgtatggccaaactggcactggaaaaactttttacaatggaaggtgaaaggtca
cctaatgaagagtatacctgggaagaggatcccttggctggtataattccacgtacccttcatcaaattttt
gagaaacttactgataatggtactgaattttcagtcaaagtgtctctgttggagatctataatgaagagctt
tttgatcttcttaatccatcatctgatgtttctgagagactacagatgtttgatgatccccgtaacaagaga
ggagtgataattaaaggtttagaagaaattacagtacacaacaaggatgaagtgtatcaaattttagaaaag
ggggcagcaaaaaggacaactgcagctactctgatgaatgcatactctagtcgttcccactcagtttttctct
gttacaatacatgaaagaaactacgattgatggagaagagcttgttaaaatcggaaagttgaacttggtt
gatcttgcaggaagtgaaaacattggccgttctggagctgttgataagagagctcgggaagctggaaatata
aatcaatccctgttgactttgggaagggtcattactgcccttgtagaaagaacacctcatgttccttatcga
gaatctaaactaactagaatcctccaggattctcttggagggcgtacaagaacatctataattgcaacaatt
tctcctgcatctctcaatcttgaggaaactctgagtacattggaatatgctcatagagcaaagaacatattg
aataagcctgaagtgaatcagaaactcaccaaaaaagctcttattaaggagtatacggaggagatagaacgt
ttaaaacgagatcttgctgcagcccgtgagaaaaatggagtgtatatttctgaagaaaatttttagagtcatg
agtggaaaattaactgttcaagaagagcagattgtagaattgattgaaaaaattggtgctgttgaggaggag
ctgaatagggttacagagttgtttatggataataaaaatgaacttgaccagtgtaaatctgacctgcaaaat
aaaacacaagaacttgaaaccactcaaaaacatttgcaagaaactaaattacaacttgttaaagaagaatat
atcacatcagctttggaaagtactgaggagaaacttcatgatgctgccagcaagctgcttaacacagttgaa
gaaactacaaaagatgtatctggtctccattccaaactggatcgtaagaaggcagttgaccaacacaatgca
gaagctcaggatattttttggcaaaaacctgaatagtctgtttaataatatggaagaattaattaaggatggc
agcctcgagggtaccgagcagaagctgatcagcgaggaggacctgatcgagcaccaccaccaccaccactga

FIG. 8

MACQPNSSAKKKEEKGKNIQVVVRCRPFNLAERKASAHSIVECDPVRKEVSVRTGGLADKSSRKTYTFDMVF
GASTKQIDVYRSVVCPILDEVIMGYNCTIFAYGQTGTKFTMEGERSPNEEYTWEEDPLAGIIPRTLHQIF
EKLTDNGTEFSVKVSLLEIYNEELFDLLNPSSDVSERLQMFDDPRNKRGVIIKGLEEITVHNKDEVYGILEK
GAAKRTTAATLMNAYSSRSHSVFSVTIHMKETTIDGEELVKIGKLNLVDLAGSENIGRSGAVDKRAREAGNI
NQSLLTLGRVITALVERTPHVPYRESKLTRILQDSLGGRTRTSIIATISPASLNLEETLSTLEYAHRAKNIL
NKPEVNQKLTKKALIKEYTEEIERLKRDLAAAREKNGVYISEENFRVMSGKLTVQEEQIVELIEKIGAVEEE
LNRVTELFMDNKNELDQCKSDLQNKTQELETTQKHLGETKLGLVKEEYITSALESTEEKLHDAASKLLNTVE
ETTKDVSGLHSKLDRKKAVDQHNAEAQDIFGKNLNSLFNNMEELIKDGS<u>LEQTEGKLISEEDLIEHHHHHH</u>

FIG. 9

atggcg<u>tgc</u>cagccaaattcgtctgcgaagaagaaagaggagaaggggaagaacatccaggtggtggtgaga
tgcagaccatttaatttggcagagcggaaagctagcgcccattcaatagtagaatgtgatcctgtacgaaaa
gaagttagtgtacgaactggaggattggctgacaagagctcaaggaaaacatacacttttgatatggtgttt
ggagcatctactaaacagattgatgtttaccgaggtgttgtttgtccaattctggatgaagttattatgggc
tataattgcactatctttgcgtatggccaaactggcactggaaaaacttttacaatggaaggtgaaaggtca
cctaatgaagagtatacctgggaagaggatcccttggctggtataattccacgtacccttcatcaaattttt
gagaaacttactgataatggtactgaattttcagtcaaagtgtctctgttggagatctataatgaagagctt
tttgatcttcttaatccatcatctgatgtttctgagagactacagatgtttgatgatccccgtaacaagaga
ggagtgataattaaaggtttagaagaaattacagtacacaacaaggatgaagtgtatcaaattttagaaaag
ggggcagcaaaaaggacaactgcagctactctgatgaatgcatactctagtcgttcccactcagttttctct
gttacaatacatatgaaagaaactacgattgatggagaagagcttgttaaaatcggaaagttgaacttggtt
gatcttgcaggaagtgaaaacattggccgttctggagctgttgataagagagctcgggaagctggaaatata
aatcaatccctgttgactttgggaagggtcattactgcccttgtagaaagaacacctcatgttccttatcga
gaatctaaactaactagaatcctccaggattctcttggagggcgtacaagaacatctataattgcaacaatt
tctcctgcatctctcaatcttgaggaaactctgagtacattggaatatgctcatagagcaaagaacatattg
aataagcctgaagtgaatcagaaa<u>tag</u>

FIG. 10

MACQPNSSAKKKEEKGKNIQVVVRCRPFNLAERKASAHSIVECDPVRKEVSVRTGGLADKSSRKTYTFDMVF
GASTKQIDVYRSVVCPILDEVIMGYNCTIFAYGQTGTGKTFTMEGERSPNEEYTWEEDPLAGIIPRTLHQIF
EKLTDNGTEFSVKVSLLEIYNEELFDLLNPSSDVSERLQMFDDPRNKRGVIIKGLEEITVHNKDEVYGILEK
GAAKRTTAATLMNAYSSRSHSVFSVTIHMKETTIDGEELVKIGKLNLVDLAGSENIGRSGAVDKRAREAGNI
NQSLLTLGRVITALVERTPHVPYRESKLTRILQDSLGGRTRTSIIATISPASLNLEETLSTLEYAHRAKNIL
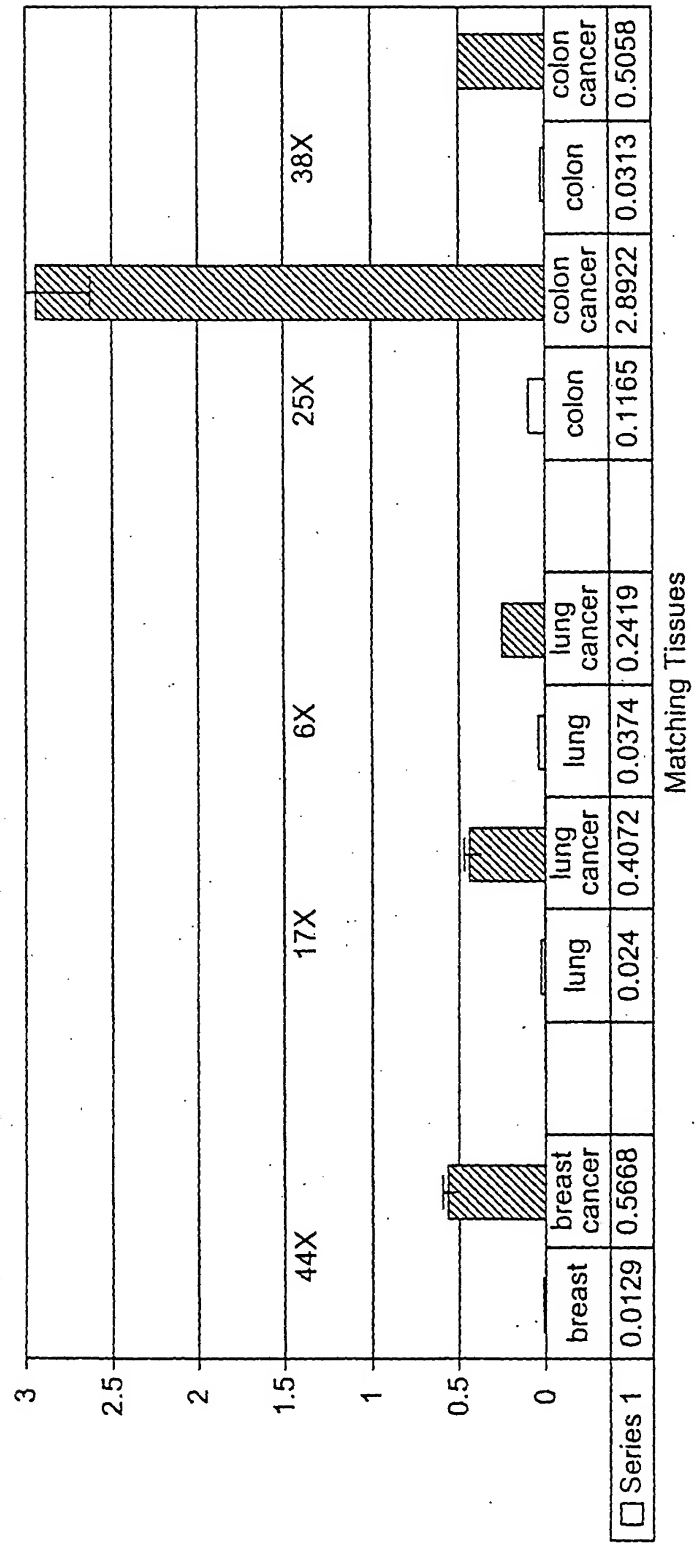NKPEVNQK

	breast	breast cancer		lung	lung cancer	lung	lung cancer		colon	colon cancer	colon	colon cancer
Series 1	0.0129	0.5668		0.024	0.4072	0.0374	0.2419		0.1165	2.8922	0.0313	0.5058

Matching Tissues

FIG. 11